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Janti Lie

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The Commissioner for Patents United States Patent and Trademark Office P. O. Box 1450 Alexandria, VA 22313-1450

ATTN: Mail Stop Patent Application

Re: U.S. Utility Patent Application

Appl. No. 10/776,438; Filed <u>2/10/2004</u>

For: Optical Waveguide Grating Coupler Incorporating Reflective Optical Elements

and Anti-Reflection Elements

Inventor(s): Gunn III, et al. Docket No.: <u>LUX-P021</u>

Sir:

The following documents are forwarded herewith for action by the U.S. Patent and Trademark Office:

- 1. Information Disclosure Statement;
- 2. Form PTO/SB/08A
- 3. Form PTO/SB/08B with 9 reference(s); and
- 4. A return post card.

It is respectfully requested that the attached postcard be <u>stamped with the receipt date</u> of the above documents and returned to the addressee as soon as possible.

Respectfully submitted,

2/24/04 Date

DENNIS S. FERNANDEZ

Reg. No. 34,160

CUSTOMER NO: 22877

FERNANDEZ & ASSOCIATES, LLP

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s):

Gunn III, et al.

Docket No.:

LUX-P021

Serial No.:

10/776,438

Group Art Unit: (Not yet assigned)

Filed:

2/10/2004

Examiner:

(Not yet assigned)

Title:

Optical Waveguide Grating Coupler Incorporating Reflective Optical Elements and Anti-

Reflection Elements

INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In keeping with the duty of candor and good faith owed to the Patent and Trademark Office, Applicants wish to bring the enclosed printed publications and U.S. patent references to the attention of the Examiner.

Applicant respectfully submits that Applicants' claimed invention is patentable over such references. Forms PTO/SB/08A and PTO/SB/08B listing these references are attached. It is understood the Office may find additionally relevant material in these or other references

Respectfully submitted,

DENNIS S. FERNANDEZ, ESQ.

Reg. No. 34,160

Date

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Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known			
Application Number	10/776,438		
Filing Date	2/10/2004		
First Named Inventor	Gunn III, et al		
Art Unit	Not Yet Assigned		
Examiner Name	Not yet Assigned		
Attorney Docket Number	1114 - DA21		

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (# known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-			
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		FORE	GN PATENT DOCU	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY	, pp. com of once booking.	Or Relevant Figures Appear	T⁵		

Examiner	Date	
Signature	Considered	

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Complete if Known

Application Number 10/777, 438

INFORMATION DISCLOSURE

Filing Date 2/10/2004

First Named Inventor Gunn (11), et al.

(Use as many sheets as necessary)

Sheet 2 of 2 Attorney Docket Number Lux

That Named inventor	Gunn III, et al			
Art Unit	Not Yet Assigned			
Examiner Name	u			
Attorney Docket Number	Lux -P021			

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	.1	"LOW LOSS NANOPHOTONIC WAVEGUIDES AND RING RESONATORS IN SILICON-ON-INSULATOR"; BEATS, ET AL	
	2	"LARGE-SCALE PRODUCTION TECHNIQUES FOR PHOTONIC NANOSTRUCTURES"; BOGAERTS, ET AL	
	3	"CMOS-COMPATIBLE PLANAR SILICON WAVEGUIDE-GRATING-COUPLER PHOTODETECTORS FABRICATED ON SILICON-ON-INSULATOR (SOI) SUBSTRATES"; S.M. CSUTAK, S. DAKSHINA-MURTHY &	
		JOE C. CAMPBELL; IEEE JOURNAL OF QUANTUM ELECTRONICS, VOL.38 NO. 5 MAY 2002	
	4.	"BURIED-OXIDE SILICON-ON-INSULATOR STRUCTURES II: WAVEGUIDE GRATING COUPLERS"; EMMONS, ET AL; IEEE JOURNAL OF QUANTUM ELECTRONICS, VOL.28 NO. 1 JANUARY 1992.	G
	5	"INTEGRATED OPTICS FOR OPTICAL HEAD APPLICATIONS"; OCHIAI ET AL; ELECTRONICS LETTERS 18TH AUGUST 1994 VOL. 30 NO. 17, PAGE 1403-1404	
	6	"EFFECTS OF GRATING HEIGHTS ON HIGHLY EFFICIENT UNIBOND SOI WAVEGUIDE GRATING COUPLERS"; ANG, ET AL; IEEE PHOTONICS TECHNOLOGY LETTERS VOL.12 NO. 1 JAN 2000	
	7	"MODE MATCHING TECHNIQUE FOR HIGHLY EFFICIENT COUPLING BETWEEN DIELECTRIC WAVEGUIDES AND PLANAR PHOTONIC CRYSTAL CIRCUITS"; SANCHIS, ET AL	
	8	"BURIED-OXIDE SILICON-ON-INSULATOR STRUCTURES II: WAVEGUIDE GRATING COUPLERS"; EMMONS, ET AL; IEEE JOURNAL OF QUANTUM ELECTRONICS, VOL 28 NO.1 JANUARY 1992	
	9	"NON UNIFORM GRATING COUPLERS FOR COUPLING OF GAUSSIAN BEAMS TO COMPACT WAVEGUIDES"; WEST, ET AL; PUBLISHED IN THE INTEGRATED PHOTONICS RESEARCH TECHNICAL DIGEST 1994	

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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